

METHOD AND APPARATUS FOR OBJECT IDENTIFICATION,  
CLASSIFICATION OR VERIFICATION

ABSTRACT OF THE DISCLOSURE

5           There is provided a method for classifying, identifying or verifying an object  
by representing the object by a respective sequence of vectors, modeling the  
sequence of vectors with a respective generative model such that the object is  
represented by the generative model, computing the distances between the  
generative models to form one or many kernel matrices based on the distance metric,  
10 and using the kernel matrices to classify, identify or verify the object. There is  
provided a system for determining a classification of an object having a  
representation module for representing an object by a respective sequence of  
vectors, a modeling module for modeling the sequence of vectors with a respective  
generative model such that the object is represented by the generative model, a  
15 distance computing module for calculating the distances between the generative  
models to form one or many kernel matrices based on the distance metric, and a  
determination module for classifying, identifying or verifying the object based on  
the kernel matrices.